

Table 12.3-3(a) Average Rehabilitation Work for Steel Decks (man-hours/square foot)

| Steel Decks | | | | | | | |
|--------------|------------|------------|------------|------------|------------|------------|------------|
| before/after | 9 | 8 | 7 | 6 | 5 | 4 | 3 |
| 9 | 0.03604578 | | | | | | |
| 8 | | 0.02153159 | | | | | |
| 7 | | 0.0257469 | 0.02441798 | | | | |
| 6 | 0.02490942 | 0.03526347 | 0.05964108 | 0.03349455 | | | |
| 5 | | 0.04003307 | 0.2265075 | 0.05255318 | 0.05091816 | | |
| 4 | 0.1361944 | | 0.0314325 | 0.00933239 | 0.02534432 | 0.06238136 | |
| 3 | | | | | | 0.01132428 | 0.00398395 |

Table 12.3-3(b) Average Rehabilitation Work for Steel Decks [Chen and Johnston 1987] (man-hours/square foot)

| Steel Decks (Chen) | | | | | | | |
|--------------------|---|-------|-------|-------|-------|-------|---|
| before/after | 9 | 8 | 7 | 6 | 5 | 4 | 3 |
| 9 | | | | | | | |
| 8 | | 0.018 | | | | | |
| 7 | | 0.273 | 0.278 | | | | |
| 6 | | 0.349 | 0.234 | 0.321 | | | |
| 5 | | 0.294 | | 0.016 | 0.346 | | |
| 4 | | 0.48 | | | | 0.758 | |
| 3 | | 0.524 | | | | | |

Table 12.3-3(c) Occurrences of Function Codes for Work on Steel Decks

| Steel Decks- number of occurrences | | | | | | | |
|------------------------------------|---|----|----|-----|----|----|---|
| before/after | 9 | 8 | 7 | 6 | 5 | 4 | 3 |
| 9 | 1 | | | | | | |
| 8 | | 51 | | | | | |
| 7 | | 3 | 72 | | | | |
| 6 | 1 | 3 | 11 | 178 | | | |
| 5 | | 3 | 1 | 4 | 66 | | |
| 4 | 1 | | 2 | 3 | 2 | 30 | |
| 3 | | | | | | 2 | 1 |

Table 12.3-3(d) Occurrences of Function Codes for Work on Steel Decks [Chen and Johnston 1987]

| Steel Decks (Chen)- number of occurrences | | | | | | | |
|---|---|----|---|----|---|---|---|
| before/after | 9 | 8 | 7 | 6 | 5 | 4 | 3 |
| 9 | | | | | | | |
| 8 | | 2 | | | | | |
| 7 | | 7 | 7 | | | | |
| 6 | | 17 | 1 | 12 | | | |
| 5 | | 7 | | 1 | 9 | | |
| 4 | | 6 | | | | 3 | |
| 3 | | 1 | | | | | |

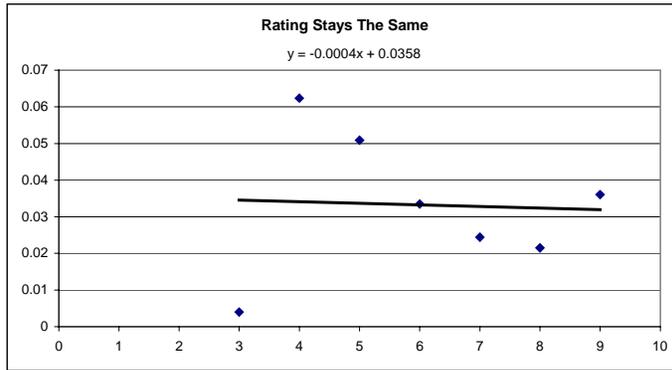


Figure 12.3-3(a) Regression Analysis for Rehabilitation Work for Steel Decks Which Did not Change the Condition Rating

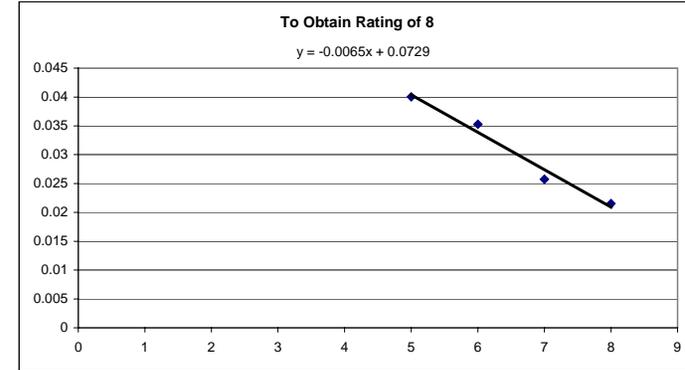


Figure 12.3-3(b) Regression Analysis for Rehabilitation Work for Steel Decks Which Changed the Condition Rating to 8

Table 12.3-3(e) Average Rehabilitation Work After Regression Analysis for Steel Decks (man-hours/square foot)

| Steel Decks- final results | | | | | | | |
|----------------------------|---|--------|--------|--------|--------|--------|--------|
| before/after | 9 | 8 | 7 | 6 | 5 | 4 | 3 |
| 9 | | | | | | | |
| 8 | | 0.0326 | | | | | |
| 7 | | 0.0391 | 0.0330 | | | | |
| 6 | | 0.0456 | 0.0395 | 0.0334 | | | |
| 5 | | 0.0521 | 0.0460 | 0.0399 | 0.0338 | | |
| 4 | | 0.0586 | 0.0525 | 0.0464 | 0.0403 | 0.0342 | |
| 3 | | 0.0651 | 0.0590 | 0.0529 | 0.0468 | 0.0407 | 0.0346 |

Table 12.3-3(f) Average Rehabilitation Work After Regression Analysis for Steel Decks [Chen and Johnston 1987] (man-hours/square foot)

| Steel Decks (Chen)- final results | | | | | | | |
|-----------------------------------|---|--------|--------|--------|--------|--------|--------|
| before/after | 9 | 8 | 7 | 6 | 5 | 4 | 3 |
| 9 | | | | | | | |
| 8 | | 0.0603 | | | | | |
| 7 | | 0.1622 | 0.1109 | | | | |
| 6 | | 0.2641 | 0.2128 | 0.1615 | | | |
| 5 | | 0.3660 | 0.3147 | 0.2634 | 0.2121 | | |
| 4 | | 0.4679 | 0.4166 | 0.3653 | 0.3140 | 0.2627 | |
| 3 | | 0.5698 | 0.5185 | 0.4672 | 0.4159 | 0.3646 | 0.3313 |

Tables 12.3-3 and Figures 12.3-3 Rehabilitation Work for Steel Decks